ENVIRONMENTAL IMPACT ASSESSMENT PROCESS 
AND 
WASTE MANAGEMENT LICENSE APPLICATION

PROPOSED CONTINUOUS ASHING AT THE EXISTING ASH DISPOSAL FACILITIES, 
AT MAJUBA POWER STATION, MPUMALANGA PROVINCE

DEA Reference Number: 14/12/16/3/3/3/53
NEAS Reference: DEA/EIA/0001417/2012

BACKGROUND INFORMATION DOCUMENT

WHAT DOES THIS DOCUMENT TELL YOU?

The purpose of this Background Information Document (BID) is to provide Interested and/or Affected Parties (I&APs) with background information about the proposed continuous ashing at the existing ashing facilities at the Majuba Power Station and the application processes to be undertaken (i.e. EIA process and Waste Management License Application process). It further explains how I&APs can become involved in the project, receive information as the EIA progresses, and raise comments and/or concerns regarding the potential impacts of the project on the environment. You are hereby invited to register as an I&AP by completing and submitting the attached “Comments and Registration” sheet.

This BID document will help you to:

• Determine if you are interested in and/or affected by the proposed project;
• Better understand the project in order to be able to provide comment; and
• Understand the environmental authorisation process so that you are able to participate effectively.

WHAT DOES THE MAJUBA CONTINUOUS ASHING PROJECT ENTAIL?

Eskom Holdings SOC Limited’s (Eskom) core business is the generation, transmission and distribution of electricity throughout South Africa. Electricity by its nature cannot be stored and must be used as it is generated. Therefore electricity is generated according to supply-demand requirements. The reliable provision of electricity by Eskom is critical to industrial development and other poverty alleviation initiatives in the country.

Majuba Power Station, a coal fired power generation facility, is located 16 km South of Amersfoort in the province of Mpumalanga. Majuba Power Station currently disposes of ash (produce from the combustion of coal) in a dry format by means of conveyors, spreader and a stacker system from the station terrace to the Ash Disposal site. The ash disposal site covers an area of 955 ha (existing and proposed ashing areas) and is located approximately 1.5 km west of the station terrace.

Majuba Power Station, envisages the continuation of dry ash disposal over the remaining portion of Eskom owned land. Such land was purchased before the commencement of
Environmental laws, the Environment Conservation Act, in particular (i.e. prior to 1989). As part of its planning processes, Eskom developed designs which were approved internally. With the promulgation of the environmental laws, and the National Environmental Management Waste Act, Act 59 of 2008, in particular, Eskom would like to align its continued ashing activities with the requirements of the waste licensing processes.

The proposed continuous development is an ash dump site with the following specifications:

- Capacity of airspace of 156.2 million m³ (remaining from August 2010 survey); and
- Ground footprint of 955 ha (362 ha: 0 – 15 year + 593 ha: 15 – 45 year) (Fenced Area including pollution control dams)

This ash disposal facility shall be able to accommodate the ashing requirements of the power station for the next 33 years, from 2012 to 2045 (these timelines are based on an annual ash production rate of 3.579 million tonnes). The proposed portion of 593 Ha is located on the Southern portion of the current Majuba Power Station ash dump site boundary. The proposed progressive portion of ash dump will continue from the existing ash dump, all on Eskom’s land within the originally planned ashing area.

Figure 1 below illustrates the ash dump layout as currently constructed and outlines the footprint of the proposed future extent of the facility.

Figure 1: The ash dump layout as currently constructed and the footprint of the proposed future extent of the facility.
WHAT ARE THE POTENTIAL ENVIRONMENTAL IMPACTS ASSOCIATED WITH THE PROPOSED PROJECT?

A number of potential environmental impacts associated with the project are anticipated. As part of the EIA, these potential impacts will be assessed through the following specialist studies:

<table>
<thead>
<tr>
<th>Specialist Study</th>
<th>Organisation Responsible for the Study</th>
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<tbody>
<tr>
<td>Impacts on groundwater</td>
<td>Metago Water GeoSciences Consulting</td>
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<tr>
<td>Impacts on surface water and aquatic fauna &amp; flora</td>
<td>Ecotone Freshwater Consultants</td>
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<td>Impacts on terrestrial fauna &amp; flora</td>
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<td>Impacts on soils &amp; agricultural potential</td>
<td>Agricultural Research Council</td>
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<td>Impacts on heritage resources</td>
<td>Johnny van Schalkwyk</td>
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<td>Impacts on air quality</td>
<td>Airshed Planning Professionals</td>
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<td>Impacts due to noise</td>
<td>Francois Malherbe Acoustic Consultants</td>
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<td>Impacts on the social environment</td>
<td>Lidwala Consulting Engineers (SA)</td>
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<td>Impacts on avifauna</td>
<td>Endangered Wildlife Trust</td>
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<td>Visual impact assessment</td>
<td>MetroGIS</td>
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<tr>
<td>Conceptual Design and Geotechnical Studies</td>
<td>Lidwala Consulting Engineers (SA) and Alan Robinson</td>
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<td>GIS</td>
<td>Lidwala Consulting Engineers (SA)</td>
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As part of the Scoping Study, desktop specialist studies will identify potential issues which require further investigation within the EIA phase, including potential additional studies that may be required. In order to comply with the minimum requirements as set out by DEA in terms of waste facilities, the scoping study will also include an environmental screening of the surrounding areas to identify whether any alternative sites exist. Input from I&APs through the public participation process also provides valuable input in the identification of issues requiring investigation within this EIA process. More detailed studies on potentially significant impacts will be investigated within the EIA phase of the project for each aspect.

WHY ARE ENVIRONMENTAL STUDIES NEEDED?

In terms of the Environmental Impact Assessment (EIA) Regulations (2010) and the National Environmental Management Waste Act (Act 59 of 2008), Eskom Holdings Limited requires authorisation from the National Department of Environmental Affairs (DEA) for the undertaking of the proposed project. The EIA Regulations are published in Government Notice R543 of 2 August 2010 in terms of Section 24 (5) of the National Environmental Management Act (Act No. 107 of 1998), the listed activities are set out in Government Notices R544 to R546 and the National Environmental Management: Waste Act (NEMWA) activities are listed in GN 718. In order to obtain an environmental authorisation and the relevant waste management license for this project, comprehensive, independent environmental studies must be undertaken in accordance with the EIA Regulations.
An EIA is a legislative tool that is used to ensure that potential impacts that may occur due to any proposed development are identified before execution, and can therefore either be avoided or mitigated (minimised). In South African legislation the environment includes social, economic and bio-physical aspects (and their interactions) and the EIA must assess these equitably.

**Table 1** below shows the listed activities that are triggered by the development. Should you wish to obtain a detailed description of these activities, please contact the Public Participation office (with details provided below).

<table>
<thead>
<tr>
<th>NEMA</th>
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Eskom has appointed Lidwala Consulting Engineers (SA) (Pty) Ltd, as independent Environmental Assessment Practitioners (EAP), to undertake environmental studies to identify and assess all potential environmental impacts associated with the proposed project. As part of these environmental studies, all I&APs are invited to become actively involved through a public participation process.

The EIA can be divided into 4 distinct phases:

**Application and initial notification**

During this phase an integrated application for authorisation has been submitted to the National Department of Environmental Affairs (DEA). Once DEA acknowledges the EIA and waste license application (within 14 days of submission of application), an initial notification process takes place whereby the public is informed of the proposed development through *inter alia*, newspaper adverts, notification letters, BIDs and site notices.

**Scoping phase**

The purpose of the scoping phase is:

- To undertake an environmental screening of the surrounding area in order to identify whether suitable alternative sites exist;
- To investigate and gather information on the proposed alternative sites, technologies and the study area in order to establish an understanding of the area;
- To establish how the proposed development activities will potentially impact on the surrounding environment;
- To identify I&APs and relevant authorities by conducting a Public Participation Process (PPP);
- To identify potential environmental impacts that require detailed assessment at EIA phase, through investigation and PPP; and
- To describe and investigate the alternatives that may be considered.
**EIA phase**

During this phase all issues and proposed alternatives identified in the scoping phase are assessed and rated in terms of their significance. Where necessary, mitigation measures are recommended to reduce the significance of potential impacts. An Environmental Management Programme will then be compiled that will prescribe environmental specifications to be adhered to during the construction, operational and decommissioning phases of the project, should the environmental authorisation be granted. As with the scoping phase, the PPP is an integral and important part of the assessment phase. Once the Final Environmental Impact Report has been submitted to DEA, the decision making process will commence.

**Environmental Authorisation and Waste Management License**

Due to the fact that the proposed project encompasses listed activities in NEMA and NEMWA, both an Environmental Authorisation (EA) in term of NEMA and a Waste Management License (WML) in terms of NEMWA are required. However, Eskom will receive an integrated environmental authorisation due to the fact that they have submitted an integrated application. The EIA process to be undertaken is represented diagrammatically in **Figure 2.**

**PUBLIC PARTICIPATION PROCESS**

It is important that relevant I&APs are identified and involved in the public participation process from the outset of the proposed project. The inputs received from I&APs form an integral part of the EIA process and will also assist the decision-making authority, DEA, with their decision-making. To ensure effective public participation, the process includes the following steps:

**STEP 1:** Advertise the EIA Process (local/community newspapers)
**STEP 2:** Register I&APs and key stakeholders on the database (on-going)
**STEP 3:** Consultation with, and transfer of information to, I&APs through consultation, public meetings, focus group meetings and key stakeholder workshops
**STEP 4:** Record and respond to all comments, issues and concerns raised by I&APs within an issues trail, which will form an integral part of EIA Reports
**STEP 5:** Invite I&AP comment and input on the draft Scoping and EIA reports (30-day comment period)
Figure 2: EIA Process
HOW CAN YOU GET INVOLVED?

1. By responding (by phone, fax or e-mail) to our invitation for your involvement which has been advertised in local newspapers.
2. By mailing, faxing or e-mail the attached comment form to Lidwala SA.
3. By attending the meetings to be held during the course of the project. Should you register as an I&AP you will be invited to attend these meetings. The meeting dates will also be advertised in local newspapers.
4. By telephonically contacting Lidwala if you have a query, comment or require further project information.
5. By reviewing the draft Scoping, EIA and Waste License Application Reports within the 30-day review periods and sending your comments to Lidwala (It should be noted that one can still review the documentation outside this 30-day window).

If you consider yourself an I&AP for this proposed project, we urge you to make use of the opportunities created by the public participation process to become involved in the process. Your input into this process forms a key part of the environmental studies and we would like to hear from you to obtain your views on the proposed project.

By completing and submitting the accompanying response form, you automatically register yourself as an I&AP for this project, and ensure that your comments, concerns or queries raised regarding the project will be addressed.

This BID is also available in Afrikaans and Zulu.

COMMENTS, QUERIES AND RESPONSES

Direct all comments, queries and responses to:

Lidwala Consulting Engineers (SA)
P.O. Box 32497, Waverley, 0135
ATTENTION:
Nicolene Venter or Bongi Mhlanga
Phone: (0861) LIDWALA (0861 543 9252)
Fax: 086 764 9282
E-mail: majubaieia@lidwala.com
Website: www.lidwala.com
Lidwala Consulting Engineers (SA) (Pty) Ltd

Bongi Mhlanga
PO Box 32497, Waverley, 0135
Tel  (0861) LIDWALA (0861 543 9252)
Fax 086 764 9282
Email majubaela@lidwala.com

Imaginative Africa (Pty) Ltd

Nicole Venter
PO Box 61164, Pierre van Rynseveld, 0045
Tel  (012) 682 2843
Email majubaela@lidwala.com

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REGISTRATION AND COMMENT FORM
Accompanying Background Information Document
September 2012

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REGISTRATION AS INTERESTED OR AFFECTED PARTY (I&AP) (please circle applicable box)

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<th>YES</th>
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Please formally register me as an interested and affected party (I&AP) so that I may receive further information and notifications during the EIA process

I would like my notifications by*

*Please tick the appropriate box

Latter (mail)
E-mail
Fax
Telephone (Telkom / Cellular)

I would like to receive documents for comment as follows*

* Please tick the appropriate box

Paper copies
By e-mail
On CD

In terms of GNR 543 (EIA process regulations) I disclose below any direct business, financial, personal or other interest that I may have in the granting or rejection of the application for environmental authorisation:

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COMMENTS (please use separate sheets if you wish)

I suggest that the following issues of concern be investigated in the EIA:

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I suggest the following for the EIA process and / or the public participation process:

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Please contact the following colleagues/friends to register as I&APs for this EIA (name and contact details e.g. e-mail address):

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THANK YOU FOR YOUR CONTRIBUTION

Signature ______________________________ Date ______________________________